YANGLANG YUAN

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EDUCATION

Southern University of Science and Technology *Sept 2021 - June 2023(Expected)*
MSc in Electronic Science and Technology Shenzhen, China

Southern University of Science and Technology *Sept 2015 - June 2019*
B.E. in Mechanical Engineering Shenzhen, China

PUBLICATIONS & PATENTS

Patents

· **Yanglang Yuan**, Jiahui Zhang, Xiaoyu Zhang, Fan Zhou, Yajun Wang, Hui Li, Haijiang Wang. (2019) "Fuel cell bipolar plate and fuel cell". *CN (Patent) CN110459780A, filed, Nov.15,2019.*

· **Yanglang Yuan**, Jiahui Zhang, Xiaoyu Zhang, Fan Zhou, Yajun Wang, Hui Li, Haijiang Wang. (2019) "Fuel cell bipolar plate and fuel cell". *CN (Patent) CN210429963U, filed July 25,2019.*

RESEARCH EXPERIENCE

Intelligent Manufacturing Lab at SUSTech July 2021 - Present
Advisor: Prof. Kevin Yiming Rong *Shenzhen, China*
· **Researching for Customer-Manufacturer(C2M)**
Data driven intelligent manufacturing system;
C2M manufacturing system model with universality and completeness;
3D printing sneakers based on C2M scene.

Shenzhen Key Laboratory of Hydrogen Energy June 2017 - June 2019
Advisor: Prof. Haijiang Wang *Shenzhen, China*
· **A Bipolar Plate Design for Fuel Cell**
Mechanical structure design of a novel bipolar plate for fuel cell unmanned aerial vehicle (UAV);
Simulated in SolidWorks and COMSOL for the static and dynamic analysis.
· **A Controlling System for Fuel Cell**
Designed the control logic and methods & controller of the fuel cell system;
Designed the temperature and voltage patrol detection system of Fuel Cell.
Thesis topic: Controlling System of the fuel cell in unmanned aerial vehicle (UAV)

Seoul National University - SUSTech Research Program Dec 2017 - Jan 2018
Advisor: Prof. Keyang Tang *Shenzhen,China*
· **International Winter Undergraduate Research Experience**
Worked in mixed teams with Seoul National University students to complete specific research tasks;
Analysis on the development of intelligent manufacturing industry;
Brief hypothesis of integrated system for design, manufacture and maintenance of shared bicycle.

Robotics and Autonomy Lab at Tsinghua University June 2017 - Aug 2017
Advisor: Prof. Chenglong Fu *Beijing, China*
· **Summer Undergraduate Research Project**
Participated in the design and manufacturing of robot Bluetooth communication controller;
Other advanced knowledge in Robotics.

Formula Student Electric China Program   2016 - 2017
Advisor: Professor Kevin Yiming Rong   *Shenzhen,China*
· **The Controlling System of Electric Racing**   *Jan 2017 - Aug 2017*
  Designed the control logic and methods of the electric racing;
  Built the high voltage and low voltage circuits of the racing.
· **Battery Management System(BMS) of Electric Racing**   *June 2016 - Jan 2017*
  Research on control strategy of battery management system;
  Designed and built the temperature and voltage detection circuit of battery management system.

TEACHING EXPERIENCE

Advanced Manufacturing Systems   Feb 2022 - June 2022
Teaching Assistant   *Shenzhen, China*

· The primary goal of this course is to impart to the student an understanding of advanced systems for the production of mechanical components using the latest technologies and methods and to enable the student to analyze systems for the production of mechanical components using modern advanced processes and technologies.Discussions are presented related to the system integration of computer-aided design (CAD), computer-aided engineering (CAE), computer-aided manufacturing (CAM), robotics, material resource planning, tool management, information management, process control, quality control, etc.

Awareness Practices of Manufacturing Engineering   Sept 2021 - Jan 2022
Teaching Assistant   *Shenzhen, China*

· This is an awareness practice course to gain some basic knowledge of fundamental manufacturing principle and methods through learning and operating typical manufacturing equipment, such as Numerical Controlled (NC) machine tools, measurement devices, additive manufacturing (3D printing) machines, etc. Students are expected to establish an understanding of basic manufacturing methods and operations as well as the concept of quality. It is a foundation for further learning in related engineering disciplines.
· Responsible for preparation of equipments, data analysis, and presentation of results and conclusions of the students' course projects.

SKILLS

Certificate	GCDF
Programming	Proficient: MATLAB, Python; Intermediate: C/C++, Java
Technical Tools	LATEX, Solidworks, 3D-printing, CAM, Altium Designer, etc
Language	Chinese, Cantonese, English

HONORS AND AWARDS

Employee of the Year, SUSTech	2021
Outstanding Graduation Thesis, SUSTech	2019
First-Class Honors Graduate of Zhicheng Residential College, SUSTech	2019
Self-improvement Star of Zhicheng Residential College, SUSTech	2019
National Encouragement Scholarship, China	2018
Outstanding Leadership of Zhicheng Residential College, SUSTech	2016 - 2018
Winning Award of Formula Student Electric China	2017